

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A conductive roller comprising a metallic core metal; and a conductive elastic layer disposed on a peripheral surface of said core metal,

said conductive elastic layer containing a rubber component and as an ionic-conductive filler not less than 0.01 parts by weight nor more than 20 parts by weight of an anion-containing salt having a fluoro group and a sulfonyl group added to 100 parts by weight of said rubber component; and

said conductive roller having an electrostatic capacity not more than 50pF at 100Hz and an electric resistance not less than $10^5\Omega$ nor more than $10^9\Omega$ at an applied of voltage 1000V.

2. (Original) The conductive roller according to claim 1, having an electrostatic capacity not less than 10pF at 100Hz.

3. (Currently Amended) The conductive roller according to claim 1, wherein an electrostatic capacity C(L) at an alternating low frequency of 10^2Hz(L) and an electrostatic capacity C(H) at an alternating high frequency of 10^5Hz(H) satisfy a relationship of:

$$0 < (C(L) - C(H)) / (\log_{10}\text{Hz(H)} - \log_{10}\text{Hz(L)}) < 10_2$$

4. (Currently Amended) The conductive roller according to claim 2, wherein an electrostatic capacity C(L) at an alternating low frequency of 10^2Hz(L) and an electrostatic capacity C(H) at an alternating high frequency of 10^5Hz(H) satisfy a relationship of:

$$0 < (C(L) - C(H)) / (\log_{10} Hz(H) - \log_{10} Hz(L)) < 10,$$

5. (Currently Amended) The conductive roller according to claim 1, wherein said conductive elastic layer is composed of a rubber composition consisting of a rubber component and an ionic-conductive filler added to said rubber component; and

said ionic-conductive filler consists is selected from the group consisting of a lithium salt, a potassium salt, a quaternary ammonium salt or and an imidazolyl salt, each having a fluoro group and a sulfonyl group capable of dissociating into anions and cations.

6. (Currently Amended) The conductive roller according to claim 2, wherein said conductive elastic layer is composed of a rubber composition consisting of a rubber component and an ionic-conductive filler added to said rubber component; and

said ionic-conductive filler consists is selected from the group consisting of a lithium salt, a potassium salt, a quaternary ammonium salt or and an imidazolyl salt, each having a fluoro group and a sulfonyl group capable of dissociating into anions and cations.

7. (Currently Amended) The conductive roller according to claim 3, wherein said conductive elastic layer is composed of a rubber composition consisting of a rubber component and an ionic-conductive filler added to said rubber component; and

said ionic-conductive filler consists is selected from the group consisting of a lithium salt, a potassium salt, a quaternary ammonium salt or and an imidazolyl salt, each having a fluoro group and a sulfonyl group capable of dissociating into anions and cations.

8. (Currently Amended) The conductive roller according to claim 1, wherein the rubber component of said conductive elastic layer is composed of a rubber composition containing a rubber component selected from the group consisting of at least one rubber selected from among ethylene-propylene-diene terpolymer, acrylonitrile butadiene rubber, and butadiene rubber; and not less than 0.01 parts by weight nor more than 20 parts by weight of an anion-containing salt having a fluoro group and a sulfonyl group added to 100 parts by weight of said rubber component as an ionic conductive filler.

9. (Currently Amended) The conductive roller according to claim 2, wherein the rubber component of said conductive elastic layer is composed of a rubber composition containing a rubber component selected from the group consisting of at least one rubber selected from among ethylene-propylene-diene terpolymer, acrylonitrile butadiene rubber, and butadiene rubber; and not less than 0.01 parts by weight nor more than 20 parts by weight of an anion-containing salt having a fluoro group and a sulfonyl group added to 100 parts by weight of said rubber component as an ionic conductive filler.

10. (Currently Amended) The conductive roller according to claim 3, wherein the rubber component of said conductive elastic layer is composed of a rubber composition containing a rubber component selected from the group consisting of at least one rubber selected from among ethylene-propylene-diene terpolymer, acrylonitrile butadiene rubber, and butadiene rubber; and not less than 0.01 parts by weight nor more than 20 parts by weight of an anion-containing salt

having a fluoro group and a sulfonyl group added to 100 parts by weight of said rubber component as an ionic-conductive filler.

11. (Currently Amended) The conductive roller according to claim 4, wherein the rubber component of said conductive elastic layer is composed of a rubber composition containing a rubber component selected from the group consisting of at least one rubber selected from among ethylene-propylene-diene terpolymer, acrylonitrile butadiene rubber, and butadiene rubber; and not less than 0.01 parts by weight nor more than 20 parts by weight of an anion-containing salt having a fluoro group and a sulfonyl group added to 100 parts by weight of said rubber component as an ionic-conductive filler.

12. (New) The conductive roller according to claim 1, wherein the ionic-conductive filler is present in an amount of not less than 5 parts by weight nor more than 15 parts by weight with respect to 100 parts by weight of said rubber component.

13. (New) The conductive roller according to claim 2, wherein the ionic-conductive filler is present in an amount of not less than 5 parts by weight nor more than 15 parts by weight with respect to 100 parts by weight of said rubber component.

14. (New) The conductive roller according to claim 5, wherein the ionic-conductive filler is present in an amount of not less than 5 parts by weight nor more than 15 parts by weight with respect to 100 parts by weight of said rubber component.

15. (New) The conductive roller according to claim 8, wherein the ionic-conductive filler is present in an amount of not less than 5 parts by weight nor more than 15 parts by weight with respect to 100 parts by weight of said rubber component.

16. (New) The conductive roller according to claim 1, wherein the ionic-conductive filler is a bisfluoroalkylsulfonylimide or a trisfluoroalkylsulfonylimide salt.

17. (New) The conductive roller according to claim 2, wherein the ionic-conductive filler is a bisfluoroalkylsulfonylimide or a trisfluoroalkylsulfonylimide salt.

18. (New) The conductive roller according to claim 5, wherein the ionic-conductive filler is a bisfluoroalkylsulfonylimide or a trisfluoroalkylsulfonylimide salt.

19. (New) The conductive roller according to claim 8, wherein the ionic-conductive filler is a bisfluoroalkylsulfonylimide or a trisfluoroalkylsulfonylimide salt.